

EXCELCHEM
Environmental Labs

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ELAP Certificate No. : 2119

03 July 2012

Calvin Yang

RWQC Central Valley

11020 Sun Center Dr. #200

Rancho Cordova, CA 95670

RE: MUN Evaluation

Work order number:1206261

Enclosed are the results of analyses for samples received by the laboratory on 06/26/12 16:38. All Quality Control results are within acceptable limits except where noted as a case narrative. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

John Somers, Lab Director

Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
07/03/12 16:21

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AWL 120626-07	1206261-01	Water	06/26/12 09:16	06/26/12 16:38
AWL 120626-08	1206261-02	Water	06/26/12 05:00	06/26/12 16:38
AWL 120626-30	1206261-03	Water	06/26/12 07:59	06/26/12 16:38
AWL 120626-31	1206261-04	Water	06/26/12 08:55	06/26/12 16:38
AWL 120626-32	1206261-05	Water	06/26/12 09:16	06/26/12 16:38
AWL 120626-33	1206261-06	Water	06/26/12 09:36	06/26/12 16:38
AWL 120626-34	1206261-07	Water	06/26/12 10:19	06/26/12 16:38
AWL 120626-35	1206261-08	Water	06/26/12 10:48	06/26/12 16:38
AWL 120626-36	1206261-09	Water	06/26/12 15:14	06/26/12 16:38
AWL 120626-40	1206261-10	Water	06/26/12 11:52	06/26/12 16:38
AWL 120626-41	1206261-11	Water	06/26/12 12:12	06/26/12 16:38
AWL 120626-42	1206261-12	Water	06/26/12 12:26	06/26/12 16:38
AWL 120626-43	1206261-13	Water	06/26/12 14:44	06/26/12 16:38
AWL 120626-44	1206261-14	Water	06/26/12 14:10	06/26/12 16:38
AWL 120626-45	1206261-15	Water	06/26/12 14:25	06/26/12 16:38

Excelchem Environmental Lab.



Laboratory Representative

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Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
07/03/12 16:21

AWL 120626-07 1206261-01 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Ion Chromatography

Nitrate as Nitrogen	0.09	0.11	0.02	mg/L	1	AVF0290	06/27/12	06/27/12	EPA 300.0	J
Nitrite as Nitrogen	ND	0.15	0.02	"	1	"	"	"	"	

Wet Chemistry

MBAS	0.251	0.100	0.0600	mg/L	1	AVF0283	06/27/12	06/27/12	SM5540C	
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Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
07/03/12 16:21

AWL 120626-08 1206261-02 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Ion Chromatography

Nitrate as Nitrogen	0.04	0.11	0.02	mg/L	1	AVF0290	06/27/12	06/27/12	EPA 300.0	J
Nitrite as Nitrogen	ND	0.15	0.02	"	1	"	"	"	"	

Wet Chemistry

MBAS	ND	0.100	0.0600	mg/L	1	AVF0283	06/27/12	06/27/12	SM5540C	
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Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
07/03/12 16:21

AWL 120626-30 1206261-03 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Ion Chromatography

Nitrate as Nitrogen	0.07	0.11	0.02	mg/L	1	AVF0290	06/27/12	06/27/12	EPA 300.0	J
Nitrite as Nitrogen	ND	0.15	0.02	"	1	"	"	"	"	

Wet Chemistry

MBAS	ND	0.100	0.0600	mg/L	1	AVF0283	06/27/12	06/27/12	SM5540C	
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Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
07/03/12 16:21

AWL 120626-31 1206261-04 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Ion Chromatography

Nitrate as Nitrogen	0.04	0.11	0.02	mg/L	1	AVF0290	06/27/12	06/27/12	EPA 300.0	J
Nitrite as Nitrogen	ND	0.15	0.02	"	1	"	"	"	"	

Wet Chemistry

MBAS	ND	0.100	0.0600	mg/L	1	AVF0283	06/27/12	06/27/12	SM5540C	
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RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
07/03/12 16:21

AWL 120626-32 1206261-05 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Ion Chromatography

Nitrate as Nitrogen	0.07	0.11	0.02	mg/L	1	AVF0290	06/27/12	06/27/12	EPA 300.0	J
Nitrite as Nitrogen	ND	0.15	0.02	"	1	"	"	"	"	

Wet Chemistry

MBAS	0.137	0.100	0.0600	mg/L	1	AVF0283	06/27/12	06/27/12	SM5540C	
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Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
07/03/12 16:21

AWL 120626-33 1206261-06 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Ion Chromatography

Nitrate as Nitrogen	0.04	0.11	0.02	mg/L	1	AVF0290	06/27/12	06/27/12	EPA 300.0	J
Nitrite as Nitrogen	ND	0.15	0.02	"	1	"	"	"	"	

Wet Chemistry

MBAS	ND	0.100	0.0600	mg/L	1	AVF0283	06/27/12	06/27/12	SM5540C	
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Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
07/03/12 16:21

AWL 120626-34 1206261-07 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Ion Chromatography

Nitrate as Nitrogen	0.03	0.11	0.02	mg/L	1	AVF0290	06/27/12	06/27/12	EPA 300.0	J
Nitrite as Nitrogen	ND	0.15	0.02	"	1	"	"	"	"	

Wet Chemistry

MBAS	ND	0.100	0.0600	mg/L	1	AVF0283	06/27/12	06/27/12	SM5540C	
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RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
07/03/12 16:21

AWL 120626-35 1206261-08 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Ion Chromatography

Nitrate as Nitrogen	0.07	0.11	0.02	mg/L	1	AVF0290	06/27/12	06/27/12	EPA 300.0	J
Nitrite as Nitrogen	ND	0.15	0.02	"	1	"	"	"	"	

Wet Chemistry

MBAS	ND	0.100	0.0600	mg/L	1	AVF0283	06/27/12	06/27/12	SM5540C	
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RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
07/03/12 16:21

AWL 120626-36 1206261-09 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Ion Chromatography

Nitrate as Nitrogen	0.05	0.11	0.02	mg/L	1	AVF0290	06/27/12	06/27/12	EPA 300.0	J
Nitrite as Nitrogen	ND	0.15	0.02	"	1	"	"	"	"	

Wet Chemistry

MBAS	ND	0.100	0.0600	mg/L	1	AVF0283	06/27/12	06/27/12	SM5540C	
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RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
07/03/12 16:21

AWL 120626-40 1206261-10 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Ion Chromatography

Nitrite as Nitrogen	ND	0.15	0.02	mg/L	1	AVF0290	06/27/12	06/27/12	EPA 300.0	
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Wet Chemistry

MBAS	ND	0.100	0.0600	mg/L	1	AVF0283	06/27/12	06/27/12	SM5540C	
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RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
07/03/12 16:21


AWL 120626-40 1206261-10RE1 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Ion Chromatography

Nitrate as Nitrogen	19.0	1.10	0.20	mg/L	10	AVF0290	06/27/12	06/27/12	EPA 300.0	
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RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
07/03/12 16:21

AWL 120626-41 1206261-11 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Ion Chromatography

Nitrite as Nitrogen	ND	0.15	0.02	mg/L	1	AVF0290	06/27/12	06/27/12	EPA 300.0	
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Wet Chemistry

MBAS	ND	0.100	0.0600	mg/L	1	AVF0283	06/27/12	06/27/12	SM5540C	
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RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
07/03/12 16:21

AWL 120626-41 1206261-11RE1 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Ion Chromatography

Nitrate as Nitrogen	19.0	1.10	0.20	mg/L	10	AVF0290	06/27/12	06/27/12	EPA 300.0	
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RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
07/03/12 16:21

AWL 120626-42 1206261-12 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Ion Chromatography

Nitrite as Nitrogen	0.21	0.15	0.02	mg/L	1	AVF0290	06/27/12	06/27/12	EPA 300.0	
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Wet Chemistry

MBAS	ND	0.100	0.0600	mg/L	1	AVF0283	06/27/12	06/27/12	SM5540C	
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RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
07/03/12 16:21


AWL 120626-42 1206261-12RE1 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Ion Chromatography

Nitrate as Nitrogen	10.9	0.55	0.10	mg/L	5	AVF0290	06/27/12	06/27/12	EPA 300.0	
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RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
07/03/12 16:21

AWL 120626-43 1206261-13 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Ion Chromatography

Nitrate as Nitrogen	0.08	0.11	0.02	mg/L	1	AVF0290	06/27/12	06/27/12	EPA 300.0	J
Nitrite as Nitrogen	ND	0.15	0.02	"	1	"	"	"	"	

Wet Chemistry

MBAS	ND	0.100	0.0600	mg/L	1	AVF0283	06/27/12	06/27/12	SM5540C	
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Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
07/03/12 16:21

AWL 120626-44 1206261-14 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Ion Chromatography

Nitrate as Nitrogen	0.09	0.11	0.02	mg/L	1	AVF0290	06/27/12	06/27/12	EPA 300.0	J
Nitrite as Nitrogen	ND	0.15	0.02	"	1	"	"	"	"	

Wet Chemistry

MBAS	ND	0.100	0.0600	mg/L	1	AVF0283	06/27/12	06/27/12	SM5540C	
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Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
07/03/12 16:21

AWL 120626-45 1206261-15 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Ion Chromatography

Nitrate as Nitrogen	0.06	0.11	0.02	mg/L	1	AVF0290	06/27/12	06/27/12	EPA 300.0	J
Nitrite as Nitrogen	ND	0.15	0.02	"	1	"	"	"	"	

Wet Chemistry

MBAS	ND	0.100	0.0600	mg/L	1	AVF0283	06/27/12	06/27/12	SM5540C	
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RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
07/03/12 16:21

Ion Chromatography - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AVF0290 - EPA 300.0

Blank (AVF0290-BLK1)

Prepared & Analyzed: 06/27/12

Nitrite as Nitrogen	ND	0.15	0.02	mg/L							
Nitrate as Nitrogen	ND	0.11	0.02	"							

LCS (AVF0290-BS1)

Prepared & Analyzed: 06/27/12

Nitrite as Nitrogen	2.91	0.15	0.02	mg/L	3.05		95.4	80-120			
Nitrate as Nitrogen	2.17	0.11	0.02	"	2.26		96.0	80-120			

LCS Dup (AVF0290-BSD1)

Prepared & Analyzed: 06/27/12

Nitrite as Nitrogen	2.93	0.15	0.02	mg/L	3.05		96.1	80-120	0.687	20	
Nitrate as Nitrogen	2.17	0.11	0.02	"	2.26		95.9	80-120	0.156	20	

Duplicate (AVF0290-DUP1)

Source: 1206255-01

Prepared & Analyzed: 06/27/12

Nitrite as Nitrogen	0.29	0.15	0.02	mg/L		0.28			6.06	20	
Nitrate as Nitrogen	0.41	0.11	0.02	"		0.43			3.22	20	

Matrix Spike (AVF0290-MS1)

Source: 1206261-01

Prepared & Analyzed: 06/28/12

Nitrite as Nitrogen	3.10	0.15	0.02	mg/L	3.05	ND	102	75-125			
Nitrate as Nitrogen	2.31	0.11	0.02	"	2.26	0.09	98.2	75-125			


Matrix Spike Dup (AVF0290-MSD1)

Source: 1206261-01

Prepared & Analyzed: 06/28/12

Nitrite as Nitrogen	3.19	0.15	0.02	mg/L	3.05	ND	105	75-125	2.80	20	
Nitrate as Nitrogen	2.31	0.11	0.02	"	2.26	0.09	98.3	75-125	0.186	20	

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RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
07/03/12 16:21

Wet Chemistry - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AVF0283 - SM5540C

Blank (AVF0283-BLK1)

Prepared & Analyzed: 06/27/12

MBAS ND 0.100 0.0600 mg/L

LCS (AVF0283-BS1)

Prepared & Analyzed: 06/27/12

MBAS 0.480 0.100 0.0600 mg/L 0.500 96.0 90-110

LCS Dup (AVF0283-BSD1)

Prepared & Analyzed: 06/27/12

MBAS 0.482 0.100 0.0600 mg/L 0.500 96.4 90-110 0.416 15

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RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
07/03/12 16:21

Notes and Definitions

J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
ND Analyte not detected at reporting limit.
NR Not reported

Analysis Method

EPA 8260, EPA 8021/8015M
EPA 8270, EPA 8081, EPA 8082, EPA 8141, EPA 8015M (extractable)
Metals
TCLP
Not Specified

Prep Method

EPA 5030B
Water - EPA 3510C, Soil- EPA 3550B
Water- 3005A, Soil- 3050B
EPA 1311
Same as Analysis Method

Excelchem Environmental Lab.



Laboratory Representative

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RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
07/03/12 16:21

[illegible]

Excelchem Environmental Lab.

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Laboratory Representative

Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
07/03/12 16:21

Sample Integrity

WORK ORDER 12062101

Date Received: 07/03/12 6/26/12

Section 1 – Sample Arrival Info.

Sample Transport: ONTRAC UPS USPS Walk-In EXCELCHEM Courier Fed-Ex Other: _____

Transported In: Ice Chest Box Hand

Describe type of packing materials: Bubble Wrap Foam Packing Peanuts Paper Other: _____

Has chilling process begun? Y N Samples Received: Chilled to Touch / Ambient On Ice

Temperature of Samples (°C): 10 Ice Chest Temperature(s) (°C): _____

Section 2 – Bottle/Analysis Info.

	Yes	No	N/A	Comments
Did all bottles arrive unbroken and intact?	<u>X</u>			
Did all bottle labels agree with COC?	<u>X</u>			
Were correct containers used for the tests requested?	<u>X</u>			
Were correct preservations used for the tests requested?	<u>X</u>			
Was a sufficient amount of sample sent for tests indicated?	<u>X</u>			
Were bubbles present in VOA Vials?: (Volatile Methods Only)			<u>X</u>	<u>dates time of collection not noted on sample labels</u>

Section 3 – Summa/Flow regulator Info.

Used Summa#:

Unused Summa#:

Cleaning Summa#:

Regulator#:

Was there any visual damage to summa canisters or flow regulators? Explain.

Section 4 – COC Info.

	Completed Yes	No	Info From Container		Completed Yes	No	Comments
Was COC Received	<u>X</u>			Analysis Requested	<u>X</u>		
Date Sampled	<u>X</u>			Samples arrived within holding time	<u>X</u>		
Time Sampled	<u>X</u>			Any hold times less than 72 hrs	<u>X</u>		
Sample ID	<u>X</u>			Client Name	<u>X</u>		
Rush TAT		<u>Y</u>		Address/Telephone #	<u>X</u>		

Section 5 – Comments / Discrepancies

Was Client notified of discrepancies: Yes No N/A Notified by:

Explanations / Comments:

Samples Labeled by: mg

Bin #: 313

COC Scanned/Attached by: mg

Sample labels reviewed by: _____

Filled

Out by: Monica

Date: 6/26/12

Time: 1638

Excelchem Environmental Lab.

[Signature]

Laboratory Representative

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